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## CLAIM AMENDMENT

Please amend the claims as follows:

- (Currently amended) A method for determining <u>beryllium</u> metal-induced sensitivity of a subject, said method comprising:
  - a. Staining a peripheral blood leukocyte (PBL) population obtained from a subject
    with an intracellular protein stain, wherein said intracellular protein stain
    comprises carboxy fluorescein diacetate succinimide ester (CFSE);
  - Contacting said population with an amount of a <u>beryllium test-metal-containing</u> compound sufficient to stimulate or enhance proliferation of said population; and
  - c. Measuring the loss of intracellular protein staining, whereby loss of intracellular protein staining indicates proliferation and that a subject is sensitive to beryllium the test metal.
- 2. (Canceled).
- (Currently amended) The method of claim 1, wherein said subject exhibits symptoms associated with Chronic beryllium disease, Granulomatous Lung Disease, Petroom Asthma, Sarcoidosis-Like Pathology, Noneaseating granulomas, Pulmonary fibrosis, or Hypersensitivity pneumonitis.
- 4. (Canceled).
- 5. (Canceled).
- (Currently amended) The method of claim 1, further comprising the step of selecting a subpopulation of said peripheral blood leukocyte population using a cell surface <u>marker</u> stain.
- (Original) The method of claim 6, wherein said cell surface marker is CD3, CD4 or a combination thereof.
- 8. (Original) The method of claim 6, wherein said cell surface marker is CD8.
- (Currently amended) The method of claim 6 wherein said surface <u>marker comprises</u> stain is a fluorescent agent.

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 (Currently amended) The method of claim 1, wherein said test metal beryllium containing compound comprises is a beryllium salt.

- (Original) The method of claim 10, wherien said beryllium salt is beryllium sulfate, at a concentration of between about 1 to about 150 

  µM.
- (Original) The method of claim 1, wherein said method further comprises comparing the values obtained in step (c) with a standard.
- (Original) The method of claim 1, wherein said measuring of intracellular staining is accomplished with the aid of a CFSE (carboxy fluorescein diacetate succinimide ester).
- 14. (Withdrawn) A kit for dignosing metal-induced sensitivity in a subject, said kit comprising: an agent which selectively labels intracellular proteins, an agent that selectively labels cell surface markers on a subpopulation of cells, at least one test metal, at a concentration sufficient to stimulate or enhance proliferation of a population of cells isolated from a subject with metal-induced sensitivity, and the software to analyze the results.
- (Withdrawn) The kit of claim 14, further comprising a medium for isolating leukocytes from peripheral blood.
- (Withdrawn) The kit of claim 14, wherein said agent which selectively labels intracellular proteins is fluorescent.
- (Withdrawn) The kit of claim 16, wherein said agent is CFSE (carboxy fluorescein diacetate succinimide ester).
- (Withdrawn) The kit of claim 14, further comprising an agent said agent selectively labels T lymphocyte cell surface markers.
- (Withdrawn) The kit of claim 18, wherein said agent selectively labels, CD3, CD4,
   CD8 or a combination thereof and is fluorescent
- (Withdrawn) The kit of claim 14, wherein at least one test metal is Beryllium, Titanium, Zirconium, Aluminum, Cobalt, Gold or their respective salts
- 21. (Withdrawn) The kit of claim 14, wherein the test metal is a beryllium compound.
- (Withdrawn) The kit of claim 21, wherein said beryllium compound is a beryllium salt

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23. (Withdrawn) The kit of claim 14, wherein said beryllium salt is beryllium sulfate.

- (Withdrawn) The kit of claim 23, wherein said beryllium sulfate is formulated such
  that the final concentration of said beryllium sulfate is between about 1 to about 150
  uM per sample tested.
- (Withdrawn) The kit of claim 14, further comprising at least one standard, obtained from a subject, or pool of subjects, without metal-induced sensitivity
- (Withdrawn) The kit of claim 25, wherein said standard is obtained from a subject, or pool of subjects, without metal-induced sensitivity.
- 27. (Withdrawn) The kit of claim 25, further comprising a software package, wherein said software package compares the values obtained, with the test subject to determine sensitivity.